

SECTION 00 02 00 - NOTICE TO BIDDERS

NOTICE TO BIDDERS

Notice is hereby given that sealed bids will be received:

By: Zionsville Community Schools
900 Mulberry Street
Zionsville, IN 46077

For: Zionsville New Elementary School
4400 S. 875 East
Zionsville, IN 46077

At: Zionsville Community Schools
900 Mulberry Street
Zionsville, IN 46077

Until: 2:00 PM, July 9, 2020

Bid Opening: Bids will be publicly opened and read aloud at 2:00 PM (local time), at
Zionsville Community School, 900 Mulberry Street, Zionsville, IN 46077.

Bid Opening Call In Option: +1 317-762-3960 United States, Indianapolis (Toll)
Conference ID: 740 980 328#

All work for the complete construction of the Project will be under one or more prime contracts with the Owner based on bids received and on combinations awarded. The Construction Manager will manage the construction of the Project.

Construction shall be in full accordance with the Bidding Documents which are on file with the Owner and may be examined by prospective bidders at the following locations:

Office of the Construction Manager
The Skillman Corporation
3834 S. Emerson Avenue, Building A
Indianapolis, IN 46203

The Skillman Plan Room
www.skillmanplanroom.com

Prime and Non-Prime Contract Bidders must place an order on www.skillmanplanroom.com to be able to download documents electronically or request printed documents. There is no cost for downloading the bidding documents. Bidders desiring printed documents shall pay for the cost of printing, shipping and handling. Reprographic Services are provided by:

Eastern Engineering 9901 Allisonville Road, Fishers, IN 46038, Phone 317-598-0661.

WAGE SCALE: Wage Scale does not apply to this project.

A Pre-Bid Conference will be held on June 23, 2020 at 2:00 PM, local time, at Zionsville Community School, 900 Mulberry Street, Zionsville, IN 46077. Attendance by bidders is optional, but recommended, in order to clarify or answer questions concerning the Drawings and Project Manual for the Project. A Call-In option is also available:

+1 317-762-3960 United States, Indianapolis (Toll)
Conference ID: 740 980 328#

Bid security in the amount of ten percent (10%) of the Bid must accompany each Bid in accordance with the Instructions to Bidders.

The successful Bidders will be required to furnish Performance and Payment Bonds for one hundred percent (100%) of their Contract amount prior to execution of Contracts.

Contractors submitting bids for the performance of any Work as specified in this building Project should make such Bids to **Zionsville Community Schools**. Contractors are advised that the Contract as finally entered into with any successful Bidder may be entered into with either the School Corporation or the Building Corporation or certain portions of the Contract may be entered into by both the School Corporation and the Building Corporation.

The Owner reserves the right to accept or reject any Bid (or combination of Bids) and to waive any irregularities in bidding. All Bids may be held for a period not to exceed **60** days before awarding contracts.

Zionsville Community Schools
By: Rebecca Coffman

END OF SECTION 00 02 00

SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Prime Contract, including amended General Conditions and other Division 1 Specification Sections, apply to Work of this Section.

1.02 SUMMARY

- A. The intent of this Section is to indicate the Work required by the Contractors and to provide information regarding the duties, responsibilities, and cooperation required by the Contractors, with similar requirements for the subcontractors and suppliers.
- B. Owners right to maintain current operations
- C. Occupancy requirements
- D. Work by Owner
- E. Permits, fees, and notices
- F. Labor and materials
- G. Verifications of existing dimensions
- H. Project security
- I. Coordination of work
- J. Time of commencement and completion
- K. Schedule of contract responsibilities

1.03 WORK UNDER SEPARATE CONTRACTS

- A. Prime Contracts are defined to include the following contracts described in the Schedule of Contract Responsibilities included hereinafter; and each is recognized to be a major part of the project, with Work to be performed concurrently and in close coordination with Work of other Prime Contracts.
- B. The "Contract Documents," as defined in the General Conditions, include "the Drawings." Although Drawings are grouped and identified by classification of the Work, Contractors shall be responsible for their Work as specified herein and as indicated on the Drawings. Although the majority of the Drawings are "to scale," Contractors are directed to use indicated dimensions for determining material quantities and for other reasons. No additional monies will be allowed due to

Contractors using "scaling instruments" to determine material quantities or for other reasons.

- C. Separate prime contracts will be awarded as per the "**Schedule of Contract Responsibilities**" (see Part 3 – Execution). Contractors shall include Work required by the Specifications and Drawings for each contract area defined in the Schedule.
- D. Work for the complete construction of the Project will be under multiple prime contracts with the Owner. The Construction Manager will manage the construction of the Project.
- E. Each Contractor shall be responsible for demolition and disposal of existing items relative to his Contract.

1.04 ADMINISTRATIVE RESPONSIBILITIES OF PRIME CONTRACTORS AND CM

- A. The Construction Manager shall be responsible for the maintenance of the Construction Schedule and management of every phase of the Work.
 - 1. Each Contractor shall read the Specifications and Drawings for other separate Contracts for fixed equipment and the like to be incorporated or attached or built into the Work; and familiarize himself with the requirements and responsibilities of other Contracts to enable the required coordination and supervision.
 - 2. Each Contractor shall also familiarize himself with other items to be incorporated into the Work including equipment and Work by the Owner.
 - 3. Each Contractor shall cooperate with the Construction Manager in notifying him when the Work is at a stage to require the services of other Contractors and shall notify the Construction Manager in the event that such other Contractors do not carry out their responsibilities in connection with such notification.
- B. Contractors shall cooperate with and assist the Construction Manager in the preparation of construction progress and procedures, schedule of product deliveries, and their effect on the overall project progress and completion. Other Contractors shall cooperate in getting their Work and the Work of their subcontractors completed according to the schedule as prepared and maintained by the Construction Manager. Each Contractor shall immediately notify the Construction Manager of a delay in delivery of products or the scheduled date of completion that may affect the total progress of construction.
- C. The Owner will furnish the topographical survey, either as a part of these Drawings or separately, giving the general topographical lines existing at the site and the property lines.
- D. Contractors required to make connections to existing utilities, especially sewerage where gravity flow occurs, shall verify grades and locations at points of such connections and shall notify the Construction Manager of circumstances which would adversely affect the proper flow or connection to such facilities.

1.05 PRIME CONTRACTORS USE OF PREMISES

- A. General: During the construction period, the Prime Contractors jointly shall have full use of the premises for construction operations, including use of the site. Each Prime Contractor's use of the premises is limited only by the Owner's right to perform work or to retain other Contractors on portions of the Project.

1.06 OWNERS RIGHT TO MAINTAIN OPERATIONS

- A. During the course of this Project, normal and customary functions and operations must be maintained. The Contract Documents are intended to define a strict separation between the school activities of students and staff from the activities of the construction project.
- B. The Construction Manager, Architect, and Owner will not tolerate any visible or audible actions initiated or responded to by any employees of Contractors on this Project toward any students, teachers, or staff members at the school system. Violators shall be promptly removed from the site.
- C. The Owner intends to instruct students, teachers, and staff to refrain from communications with Contractor's personnel working on this Project. All communication with Owner and staff shall be through the Construction Manager.
- D. Contractors must expend their best effort toward protection of the health, safety, and welfare of occupants on the Owner's property during the course of Work on this Project.

1.07 OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: The Owner will occupy the site and existing building during the entire construction period. Cooperate with the Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with the Owner's operations.
- B. Partial Owner Occupancy: The Owner reserves the right to occupy and to place and install equipment in completed areas of the building prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
 - 1. The Construction Manager will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.
 - 2. Party which obtained general building permit shall obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
 - 3. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.

4. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

1.08 WORK BY OWNER

- A. The Owner intends to complete the following items of Work outside the provisions of these Contract Documents. Contractors shall not restrict or interfere with the Owner's right to the Project to accomplish this Work.
 1. Equipment and furniture except as scheduled and specified under Divisions 11 and 12 and shown on the Drawings.
 2. Items which may be deleted from Contracts for Work as required by the Contract Documents.
 3. Existing school maintenance work.
 4. The purchase and supplying of certain materials as noted in the Project Manual.
 5. The Owner, under separate contract, shall provide removal of identified asbestos containing materials from the existing structure.

1.09 PERMITS, FEES, AND NOTICES

- A. The Construction Manager will secure the general building permit for the Owner. Each Contractor shall secure and pay for other permits, governmental fees, and licenses necessary for the proper execution and completion of his Work, which are applicable at the time the bids are also received. Fees to relocate utilities on Owner's property shall be included in the bid of the Contractor doing the relocation.
 1. State filing fees for plan approval are the responsibility of the Owner and will be paid by the Owner.
- B. Utility Tie-Ins: Shall be arranged with local utility company and other involved parties for minimum interruption of service.
- C. Shutdowns of existing systems shall be limited to minimum time required and scheduled with other involved parties. Provide 2 days written notice of shutdown to Construction Manager and Owner.
- D. Inspections of installed work shall be performed by the governing authority as arranged for by the Contractor. Work shall not be covered until approved.
- E. Each Contractor shall give notices and comply with laws, ordinances, rules, regulations, and orders of public authorities bearing on the performance of his Work. If a Contractor observes that the Contract Documents are at variance therewith, he shall promptly notify the Construction Manager in writing, and necessary changes shall be adjusted by appropriate notification. If a Contractor performs Work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the Construction Manager, he shall assume full responsibility therefore and shall bear the costs attributable thereto.

1.10 LABOR AND MATERIALS

- A. Unless otherwise specifically noted, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of his Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.
- B. Each Contractor shall enforce strict discipline and good order among his employees or other persons carrying out Work of his Contract and shall not permit employment of unfit person or persons or anyone not skilled in the task assigned to them.
- C. Contractors and Subcontractors shall be subject to such rules and regulations for the conduct of the Work as the Owner may establish. Employees shall be properly and completely clothed while working. Bare torsos, legs and feet will not be allowed. Possession or consumption of alcoholic beverages or drugs, tobacco or other noxious behavior on the site is strictly prohibited. Violators shall be promptly removed from the site. Smoking is not permitted on school property or within school buildings.
- D. Contractors will conduct criminal background checks (extent of and/or service to be used will be established by the Owner) on every employee assigned to work on the Project and clear them through the National Sex Offender Registry prior to their assignment to Project. Contractors will require the same of sub-contractors.
- E. ID Badges will be issued by The Skillman Corporation upon receipt of verification from the Contractor that the employee/subcontractor employee or independent contractor has a satisfactory record to work on the Project. The Prime Contractor and/or Subcontractors understand and agree to be financially responsible for lost, stolen, or unreturned keys/badges. If a key is lost, stolen, or unreturned, the Prime Contractor and/or Subcontractors are responsible for the cost of re-keying the affected area(s). If a badge is lost, stolen, or unreturned, the Prime Contractor and/or Subcontractors are responsible for the replacement cost. The cost of lost, stolen, or unreturned, badges is set at \$50.00.
- F. E-Verify Compliance: Pursuant to I.C. 22-5-1.7, Contractor shall enroll in and verify the work eligibility status of all newly hired employees of Contractor through the E-Verify Program (Program). Contractor is not required to verify the work eligibility status of all newly hired employees through the Program if the Program no longer exists. Also pursuant to I.C. 22-5-1.7, Contractor must execute an affidavit affirming that the Contractor does not knowingly employ an unauthorized alien and confirming Contractor's enrollment in the Program, unless the Program no longer exists, shall be filed with the Owner prior to the execution of this contract. This contract shall not be deemed fully executed until such affidavit is delivered to the Owner.

Contractor and its subcontractors shall not knowingly employ or contract with an unauthorized alien or retain an employee or contract with a person that contractor or its subcontractor subsequently learns is an unauthorized alien. If Contractor violates this provision the Owner shall require Contractor to remedy the violation

not later than thirty (30) days after the Owner notifies Contractor. If Contractor fails to remedy the violation within the thirty (30) day period, the Owner shall terminate the contract for breach of contract. If Owner terminates the contract, Contractor shall be liable to the Owner for actual damages in addition to any other contractual remedies. There is a rebuttable presumption that Contractor did not knowingly employ an unauthorized alien if Contractor verified the work eligibility status of the employee through the Program.

Prior to performing any work, Contractor shall require each subcontractor to certify to Contractor that the subcontractor does not knowingly employ or contract with an unauthorized alien and has enrolled in the Program. Contractor shall maintain on file a certification from each subcontractor throughout the duration of this contract or project which is the subject of this contract. If Contractor determines that a subcontractor is in violation of this provision, Contractor may terminate its contract with the subcontractor for such violation. In Accordance with I.C. 5-16-13 Contractor must provide the E-Verify Case Number of every employee that works on the project. This requirement includes the contractor's subs and suppliers to the fourth (4th) tier.

- G. The Owner is requiring that all contractors' personnel and their onsite employees (trade employees) and subcontractors submit an expanded criminal history check through SafeVendor, a product of Safe Hiring Solutions. Please visit www.safevisitorsolutions.com/safevendor-app-agreement to create your account with SafeVendor. (Contractor is responsible for the cost of this background check). This should meet with the Owner's approval prior to the employee starting work on the project. All contractors' personnel and employees once cleared for work will be issued a project identification badge that must be worn at all times while on site. All contractors will be expected to provide the required name, address, picture state driver's license or picture state identification card information to The Skillman Corporation Site Manager no later than 24 hours in advance of the employee coming to work at the project site.
- H. Pursuant to Indiana Code 5-16-13 Requirements for Contractors on Public Works Projects enacted by the Indiana Legislator requires, in addition to requirements already in effect, contractors to comply with the following:
1. Tier 1 –General/Prime Contractors to self-perform 15% of their total Contract.
 2. Qualification thru the Department of Administration or INDOT requirement in accordance with IC 4-13.6-4.
 - a. **Bids shall not be considered unless (1) the Prime Bidder and (2) all lower tiered subcontractors whose subcontract value is estimated to be \$300,000 or more are qualified at the time of the bid in accordance with IC 4 – 13.6 – 4.**
 3. Include Written Drug Testing Plan that covers all employees of the bidder who will perform work on the public work project and meets or exceeds the requirements set in IC 4-13-18-5 or IC 4-13-18-6 with Bid.

4. Minimum Insurance Requirements \$1M/occurrence \$2M/aggregate. However, check your bidding requirements as the Owners may have higher limit requirements.
5. Mandatory enrollment in E-Verify by all contractors down to the 4th Tier Sub Contracts and must provide the case verification number of all employees working on the project.
6. Prohibits contractors down to the 4th Tier Sub Contract from paying employees in cash.
7. Requirement to retain payroll records for 3 years
8. All contractors down to the 4th Tier Sub Contract must comply with Fair Labor Act, Indiana's Workers Compensation and Unemployment Compensation Insurance.
9. Mandatory Training Requirements based upon number of employees.
10. Failure to comply may result in debarment from public works projects for up to 4 years.

- I. All contractors down to the 4th Tier Sub-Contract must maintain general liability insurance in at least the following amounts: Each Occurrence Limit of \$1,000,000 and General Aggregate Limit of \$2,000,000. **Other requirements and limits may apply see specification section 00 82 00 Insurance and Bond Requirements.**

1.11 CUTTING AND PATCHING

- A. Refer to Section 01 73 10 – Cutting and Patching, for provisions on this subject.

1.12 VERIFICATIONS OF EXISTING DIMENSIONS

- A. When verification of existing dimensions is required, the Contractor requiring said verification for the construction or fabrication of his material shall be the Contractor responsible for the procurement of the field information.

1.13 PROJECT SECURITY

- A. Each Prime Contractor shall take all reasonable precautions to prevent injury, damage or loss to people and property in, on and adjacent to the project. This shall include not only their own work or property but that of other contractors and the Owner.
- B. If deemed necessary by The Construction Manager a project wide security program may be developed for the purpose of preventing damage or loss at the project site or property adjacent thereto. Once accepted by the Owner, contractors shall comply.

1.14 SCHEDULE OF CONTRACT RESPONSIBILITIES - SCOPE

- A. Contractors shall submit their proposals based on the work included under each contract area as listed herein. Include Work necessary for a complete project, as shown on the Drawings and called for in the Specifications.
- B. Questions concerning the phasing or "Schedule of Contract Responsibilities" should be directed to the Construction Manager, who will be the interpreter and be responsible for this Schedule of Contract Responsibilities and Contract Breakdown, prior to submitting proposals and during construction.
- C. The requirements of Division 1 are a part of the Work of each and every contract area. The Contractor for any one contract area shall be familiar with the Work and requirements of all other contract areas.
- D. Certain Specification Sections describe Work to be performed under several contract areas. (Example: 06 10 00 - Rough Carpentry.) Provide Work of this nature as required for each contract area whether or not enumerated in the Schedule of Contract Responsibilities.
- E. The following contract areas are broken down by Specifications Section conforming basically to the CSI format.
- F. The Drawings and Specifications as furnished for each of the Contracts is for the convenience of the Contractor in preparing a proposal for this Project. However, each Contractor is responsible to review the complete set of Drawings and Specifications to assure that Work required to be installed to complete his phase of the Work is included in his proposal. This "Schedule of Contract Responsibilities" is a definition of the work as it is to be bid in separate contracts. Where a specific item of Work is not defined, but is normally inherent to a trade, or is included in the scope of the applicable technical revision, it will be the responsibility of that Contractor to include the Work in his proposal.
- G. This "Schedule of Contract Responsibilities" is to aid each Contractor in defining the Scope of Work to be included in his proposal. However, omissions from this "Schedule of Responsibilities" do not relieve the Contractor from including in his proposal that Work which will be required to complete his Contract. Each Contractor should read the "Schedule of Contract Responsibilities" completely to familiarize himself with the Work of other Contractors that may have Work in adjacent areas and to coordinate the interfacing problems that may occur as the work is assembled and constructed.
- H. Where specific Work is to be completed under a particular phase of the Project and the Work is wholly or partially completed by other trades because of the type of work involved or jurisdictional trade agreements, the Contractor will be responsible to subcontract the Work as necessary to complete the Work included in his Contract. No delay in the Work will be allowed due to the failure of the Contractor to subcontract related work required by jurisdictional trade agreements.

1.15 COORDINATION OF WORK

- A. Each Contractor is responsible to coordinate his Work with the Work of other trades and other Contractors and requirements of the school system. The Contractor must make space allowances for Work of other Contractors; provide necessary openings where indicated or implied by the Drawings and Specifications. Each Contractor is responsible to protect his own Work.

1.16 TIME OF COMMENCEMENT AND COMPLETION

- A. The Contractor shall commence work within ten (10) days after being notified in writing to proceed and shall complete the Work within the time limitations established in the Form of Agreement.
1. It is anticipated that construction will start within **90** calendar days after receipt of bids.
 2. Construction shall be complete by **April 29, 2022**, or earlier.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 SCHEDULE OF CONTRACT RESPONSIBILITIES

3.02 GENERAL REQUIREMENTS

A. **PROVIDED BY OWNER THROUGH THE CONSTRUCTION MANAGER**

Section	01 32 00	Schedules and Reports
Section	01 45 10	Testing Laboratory Services
Section	01 59 10	Project Office
Section	01 71 50	Final Cleaning

B. **PROVIDED BY ALL CONTRACTORS AS APPLICABLE**

Section	01 12 00	Multiple Contract Summary
Section	01 21 00	Allowances
Section	01 14 33	Work in Countrymark Right-of-Way
Section	01 21 00	Allowances
Section	01 23 00	Alternates
Section	01 25 00	Contract Modification Procedures
Section	01 28 00	Schedule of Values
Section	01 29 00	Applications for Payment
Section	01 31 00	Project Meetings
Section	01 32 00	Schedules and Reports
Section	01 33 00	Submittal Procedures
Section	01 34 00	Digital Data Request Procedures
Section	01 40 00	Quality Requirements
Section	01 45 10	Testing Laboratory Services
Section	01 50 50	Temporary Facilities and Controls
Section	01 54 60	Environment Protection
Section	01 54 80	Utility Protection
Section	01 56 30	Water Control

Section	01 56 90	Housekeeping & Safety
Section	01 59 20	Offices and Sheds
Section	01 60 00	Product Requirements
Section	01 72 50	Work Layout
Section	01 73 10	Cutting and Patching
Section	01 77 00	Contract Closeout
Section	07 84 13	Penetration Firestopping
Section	07 84 43	Joint Firestopping
Section	07 91 00	Prefomed Joint Seals
Section	07 92 00	Joint Sealants

General Clarifications:

1. All Contractors shall provide their Superintendents with radios capable of handling multiple channels and compatible with radios used by the Construction Manager.
2. All contractors shall subscribe to PlanGrid for use on this project. Number of users is up to the contractor, however, at a minimum your site personnel will be required to use this product to facilitate communication. PlanGrid will be used for the current construction documentation to include, current set, addenda, ASI, As Built Conditions, QA/QC, and Punch List. Visit the www.PlanGrid.com to determine subscription pricing. It is recommended that you have an office administrator to assist your field personnel. PlanGrid is a tool for the construction phase and will not be used for bidding. Visit www.skillmanplanroom.com for bid documents.
3. All contractors are required to use The Skillman Corporations On-Line Communications platform “e-Comm” (www.skillmanecomm.com) for communication of project documentation including but not limited to Submittals, Closeouts, RFIs, Change Management, Safety, Schedules, and Meeting Reports. Contractors consent to conduct business electronically regarding all Changes and Change Management for the Project inside this electronic platform.
4. Contractors shall submit an expanded criminal history check through Safe Vendor, a product of Safe Hiring Solutions for all personnel prior to arriving at the site. Reference Specification Section 01 12 00 Multiple Contract Summary, Part 1.10 for additional details on Project Personnel Background Requirements.
5. Contractors shall provide project specific insurance and bonds as further outlined in the Contract Documents. Reference Specification Section 00 82 00 Insurance and Bond Requirements.
6. Contractors are responsible for repairing any existing utilities (private or public) that may be damaged during their Work.
7. Contractors are to provide Firestopping and Joint Sealants in accordance with the Contract Documents. In general, the Contractor whose work includes a joint or creates a joint that requires firestopping or joint sealant (in the normal sequence of work) is to provide the firestopping or joint sealant.
8. Access doors for locations not shown in prints, but required for plumbing, mechanical, or other concealed work, shall be provided by the respective Contractor.

C. **PROVIDED BY DESIGNATED CONTRACTORS**

Section	01 45 23.13	Concrete Floor Moisture Content and pH Testing
Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	01 51 30	Temporary Heating, Ventilation and Cooling
Section	01 51 50	Temporary Water
Section	01 51 60	Temporary Sanitary Facilities
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Container
Section	01 53 10	Fences (Temporary Security)
Section	01 53 20	Tree and Plant Protection
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control
Section	01 56 80	Erosion Control
Section	01 57 60	Project Signs
Section	01 72 00	Field Engineering

3.03 BID CATEGORIES

A. **BID CATEGORY NO. 1 – General Trades**

General Requirements in Paragraph 3.02.B above.

Section	01 51 50	Temporary Water
Section	01 51 60	Temporary Sanitary Facilities
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Container
Section	01 53 10	Fences (Temporary Security)
Section	01 53 20	Tree and Plant Protection
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control
Section	01 56 80	Erosion Control
Section	01 57 60	Project Signs
Section	01 72 00	Field Engineering
Section	03 06 30.01	Concrete Schedule
Section	03 06 30.02	Typical Slab Depression Legend
Section	03 06 30.03	Concrete Mix Design Submittal
Section	03 30 00	Cast-in-Place Concrete
Section	05 58 13	Column Covers
Section	06 20 23	Interior Finish Carpentry
Section	07 21 00	Thermal Insulation
Section	07 95 13.13	Interior Expansion Joint Cover Assemblies
Section	08 11 13	Hollow Metal Doors and Frames
Section	08 14 16	Flush Wood Doors
Section	08 16 13	Fiberglass Doors
Section	08 31 13	Access Doors and Frames
Section	08 33 13	Coiling Counter Doors
Section	08 33 23	Overhead Coiling Doors

Section	08 71 00	Door Hardware
Section	08 91 19	Fixed Louvers
Section	09 67 11	Fluid-Applied Cementitious Urethane Flooring (Kitchen)
Section	09 67 23	Decorative Resinous Flooring
Section	10 11 00	Visual Display Units
Section	10 12 00.16	Custom Display Cases
Section	10 14 19	Dimensional Letter Signage
Section	10 14 23.13	Exterior Panel Signage
Section	10 14 23.16	Interior Panel Signage
Section	10 21 13.19	Solid Polymer Toilet Compartments
Section	10 21 23	Cubicles
Section	10 22 33	Accordion Folding Partitions
Section	10 22 39	Operable (Folding Panel) Partitions
Section	10 26 00	Wall and Door Protection
Section	10 28 00	Toilet, Bath, and Laundry Accessories
Section	10 41 16	Lock Box
Section	10 44 13	Fire Extinguisher Cabinets
Section	10 44 16	Fire Extinguishers
Section	10 51 13	Metal Lockers
Section	11 13 00	Loading Dock Equipment
Section	11 51 23	Library Stack Systems
Section	11 52 13	Front Projection Screens
Section	11 58 00	Art Room Equipment
Section	11 61 43	Stage Curtains
Section	11 66 00	Athletic Equipment
Section	11 68 33	Athletic Field Equipment
Section	12 21 13	Horizontal Louver Blinds
Section	12 24 13	Roller Window Shades
Section	12 66 00	Telescoping Stands
Section	12 93 00	Site Furnishings and Amenities
Section	31 10 00	Site Clearing
Section	31 20 00	Earth Moving
Section	31 23 19	Dewatering
Section	31 25 00	Erosion Control
Section	31 32 00	Geotextile
Section	31 50 00	Excavation Support and Protection
Section	32 13 13.	Concrete Paving
Section	32 13 73	Concrete Paving Joint Sealants
Section	32 18 16	Playground Protective Surfacing
Section	32 31 13	Chain Link Fences and Gates
Section	32 91 13	Soil Preparation
Section	32 92 00	Turf and Grasses
Section	32 93 00	Plants
Section	33 05 00	Common Work Results for Utilities
Section	33 11 13	Facility Water Distribution Piping
Section	33 13 13	Facility Sanitary Sewers
Section	33 41 00	Storm Utility Drainage Piping
Section	33 46 00	Subdrainage

Bid Category No. 1 Clarifications:

1. Regarding any references to “GC” – “General Contractor”, “General Trades Contractor”, or “Concrete Contractor”, indicated on the Contract Documents, this work is the responsibility of this bid category.
2. The General Contractor is responsible to remove any dirt and mud that is tracked on roadways daily.
3. The General Contractor shall provide access roads inside the construction limits to support cranes. Within the building perimeter, provide access roads, using drainage course material. Access roads are to be of a width and thickness equivalent to the volume of stone required for the entire building and located to accommodate work of other trades (e.g. steel erection, cranes for masonry, etc.). At the appropriate time, distribute stone as required for new construction and as directed by the Construction Manager. Unless otherwise noted by the Construction Manager, remove all stone outside the building and remove all stone that, in the opinion of the Construction Manager, is too contaminated to reuse.
4. The General Contractor is responsible to provide the temporary laydown area, remove, and restore the site at the end of the project.
5. The General Contractor is responsible to remove any snow within the construction fencing. All walks and entrances within the construction fence shall be adequately treated with ice melt or sand to prevent ice build-up.
6. Contractor is responsible to mow the grass and maintain the weeds within the project limits for the duration of the project. Contractor shall maintain all project limits and fencing clean and free of weeds as directed by the Construction Manager.
7. Contractor shall refer to Guideline Schedule and include in their bid all necessary cold weather concrete procedures or admixtures as required to meet the schedule.
8. The General Contractor shall daylight (hydro-vacuum excavation) all existing utilities to confirm depths, sizes, and locations, prior to starting or allowing any Contractor to start any excavation work. Other trades shall coordinate with the General Contractor to confirm this work has been completed prior to excavation.
9. All concrete embedded metal fabrications including, but not limited to, anchor bolts, weld plates, angles, and leveling plates, will be furnished by the Structural Steel Contractor and installed by the General Trades Contractor. Installation shall be within required tolerances and anchor bolt assemblies shall be placed with templates only. General Contractor shall supply as-built drawings to steel erector for coordination prior to steel placement.
10. Grouting of base plates will be by the Structural Steel Contractor.
11. Masonry reinforcement shall be furnished and installed by the Masonry Contractor.
12. Equipment bases and pads shall be provided by the contractor installing the equipment, respectively.
13. Section 07 21 00 Thermal Insulation that is below grade shall be provided by the General Contractor. Section 07 21 00 Thermal Insulation cavity wall insulation behind the masonry veneer shall be provided by the Masonry Contractor. All other Section 07 21 00 Thermal Insulation including, but not limited to, the Smart CI System shall be provided by Drywall Contractor.
14. Door hardware for all window systems, and FRP doors and frames will be

furnished by the General Contractor and installed by the Glazing Contractor. Electrical Contractor shall provide final electrical connections, including but not limited to low voltage and power wiring, commissioning, or controls not integral to the hardware.

15. The General Contractor shall coordinate with Utility Companies for services as it pertains to this contractor's scope of work, as necessary.
16. The General Contractor shall provide steel road plates to permit access at all utility crossings.
17. Contractor shall include any sleeves indicated per plans passing through their work.
18. All metal bollards and covers shall be furnished by the Structural Steel Contractor for installation by the General Contractor.
19. Section 10 11 00 Factory framed visual display units shall be provided by the General Trades Contractor. Section 10 11 00 wall surface coverings shall be provided by the Painting Contractor.
20. All final connections to equipment and furnishings (not integral to equipment), interior and exterior, shall be made by the Electrical, Mechanical, or Plumbing Contractors, as applicable. Coordinate with other trades as necessary.
21. The General Contractor shall provide Door Numbering System as required to meet Center for Safe Schools standards and comply with Governing Authorities.
22. The General Contractor shall provide rough grading for area defined on site drawings for paving and surfacing. Preparation of subgrade and drainage fill to bottom of aggregate base course for pavement and surfacing are responsibility of the General Contractor, who shall confirm compaction and turn-over to Paving Contractor in accordance with the contract documents. Paving Contractor shall provide aggregate base course below asphalt paving and surfacing.
23. The General Contractor shall provide all water-distribution piping and related components for combined, domestic water, and services lines to within 5' of the building limits.
24. Contractor is responsible to get familiarized with existing conditions of the site and review all new improvements indicated in the contract documents. Contractor shall include in their bid all demolition and structure moving as noted on the plans or as required to allow for installation of new improvements.
25. The General Contractor is to include sweeping compound, and 500 man-hours for general building and site clean-up or other work to be performed by a skilled laborer at the direction of the Construction Manager throughout the duration of the project. At the end of the project, unused hours will be converted into a dollar amount and returned to the Owner as a deduct Change Order.

B. BID CATEGORY NO. 2 – Asphalt Paving and Surfacing

General Requirements in Paragraph 3.02.B above.

Section	31 20 00	Earth Moving
Section	32 12 16	Asphalt Paving
Section	32 17 13	Parking Bumpers
Section	32 17 23	Pavement Markings

Bid Category No. 2 Clarifications:

1. Regarding any references to “Paving Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Contractor shall refer to Guideline Schedule and include in their bid all necessary cold weather asphalt paving procedures or admixtures as required to meet schedule.
3. The General Contractor shall provide rough grading for area defined on site drawings for paving and surfacing. Preparation of subgrade and drainage fill to bottom of aggregate base course for pavement and surfacing are responsibility of the General Contractor, who shall confirm compaction and turn-over to Paving Contractor in accordance with the contract documents. Paving Contractor shall provide aggregate base course below paving and surfacing.
4. Paving contractor shall provide all paving specialties including, but not limited to, parking bumpers and pavement markings.
5. Curbs, gutters, sidewalks, and concrete driveways are responsibility of the General Contractor.
6. Provide all painting of fire lane, curbs, and striping, and coordinate with Governing Authorities, as necessary.
7. Paving Contractor shall protect surfaces adjacent to all paving and surfacing.

C. BID CATEGORY NO. 3 - Masonry

General Requirements in Paragraph 3.02.B above.

Section	01 52 60	Rubbish Container
Section	04 20 00	Unit Masonry
Section	04 72 00	Cast Stone Masonry
Section	07 21 00	Thermal Insulation
Section	07 27 26.02	Vapor-Permeable, Fluid-Applied Membrane Air Barrier
Section	07 62 00	Sheet Metal Flashing and Trim

Bid Category No. 3 Clarifications:

1. Regarding any references to “Masonry Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Masonry reinforcement shall be furnished and installed by the Masonry Contractor.
3. Section 07 21 00 Thermal Insulation that is below grade shall be provided by the General Contractor. Section 07 21 00 Thermal Insulation cavity wall insulation behind the masonry veneer shall be provided by the Masonry Contractor. All other Section 07 21 00 Thermal Insulation including, but not limited to, the Smart CI System shall be provided by Drywall Contractor.
4. Contractor shall refer to Guideline Schedule and include in their bid all necessary cold weather masonry installation procedures and mortar admixtures as required to meet schedule.
5. Contractor shall include any sleeves indicated per plans passing through their work.
6. All flashing below the roof line shall be the responsibility of the Masonry Contractor. All flashing above the roof line and sheet metal roof coping shall be by the Roofing Contractor.
7. Miscellaneous metal clips, anchors, supports, lintels, and other accessories that interface between masonry and structural steel shall be furnished by the Structural Steel Contractor to be installed by the Masonry Contractor.

Miscellaneous masonry anchors, supports, dowels, clips and other accessories that interface between masonry and concrete shall be provided by the Masonry Contractor.

D. BID CATEGORY NO. 4 -Structural Steel and Misc. Metals

General Requirements in Paragraph 3.02.B above.

Section	01 53 30	Barricades
Section	05 12 00	Structural Steel Framing
Section	05 21 00	Steel Joist Framing
Section	05 31 00	Steel Decking
Section	05 50 00	Metal Fabrications
Section	05 52 13	Pipe and Tube Railings

Bid Category No. 4 Clarifications:

1. Regarding any references to “Structural Steel Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. All embedded metal fabrications including, but not limited to, anchor bolts, weld plates, angles, and leveling plates, will be furnished by the Structural Steel Contractor and installed by the General Trades Contractor.
3. Grouting of base plates will be by the Structural Steel contractor.
4. All metal bollards and covers shall be furnished by the Structural Steel Contractor for installation by the General Contractor.
5. The Structural Steel, Roofing, Mechanical, Electrical and Plumbing Contractors shall coordinate with each other regarding roof penetration frames.
6. Miscellaneous metal clips, anchors, supports, lintels, and other accessories that interface between masonry and structural steel shall be furnished by the Structural Steel Contractor to be installed by the Masonry Contractor.

E. BID CATEGORY NO. 5 - Roofing

General requirements in Paragraph 3.02.B above.

Section	07 31 13	Asphalt Shingles
Section	07 54 00	Thermoplastic Membrane Roofing (PVC and KEE)
Section	07 62 00	Sheet Metal Flashing and Trim
Section	07 71 00	Roof Specialties
Section	07 72 00	Roof Accessories
Section	08 63 00	Metal-Framed Skylights

Bid Category No. 5 Clarifications:

1. Regarding any references to “Roofing Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Roofing Contractor is responsible for all wood blocking and plywood required for roof systems including MEP curbs, metal roof coping, flashings, gutters, roof hatches, or the like, interfacing with roofing.
3. All flashing below the roof line shall be the responsibility of the Masonry Contractor. All flashing above the roof line and sheet metal roof coping shall be by the Roofing Contractor.
4. Roofing Contractor shall coordinate roof penetrations with the appropriate trades and ensure that all penetrations conform with the roof systems installation requirements. Provide all material necessary to seal these penetrations.

5. Provide, furnish and install all roofing, including accessories for a complete and watertight installation. System shall include, but not be limited to: roofing systems, PVC materials, adhesives and fasteners, sealants, flashings, cants, copings, reglets and counter flashings, roof-edge specialties, crickets, walkway pads, downspouts, MEPF penetrations, roof overflow drains, temporary openings at all penetrations and temporary and permanent flashing at all mechanical equipment curbs.
6. Roofing Contractor to furnish and install roofing gutters and downspouts and include tie into storm piping system. Downspout boots shall be provided by the General Trades Contractor.

F. BID CATEGORY NO. 6 – Metal Studs, Drywall, Ceilings, & EIFS

General Requirements in Paragraph 3.02.B above.

Section	01 52 60	Rubbish Container
Section	05 40 00	Cold-Formed Metal Framing
Section	06 10 00	Rough Carpentry
Section	06 16 00	Sheathing
Section	07 21 00	Thermal Insulation
Section	07 24 13	Polymer-Based Exterior Insulation and Finish System (EIFS)
Section	07 24 19	Water-Drainage Exterior Insulation and Finish System (EIFS)
Section	07 24 23	Direct Applied Exterior Finish System
Section	09 21 16	Gypsum Board Assemblies
Section	09 51 13	Acoustical Panel Ceilings
Section	09 54 23	Linear Metal Ceiling
Section	09 77 13	Stretched-Fabric Wall Systems
Section	09 84 33	Sound-Absorbing Wall Units
Section	09 84 33.13	Abuse-Resistant Sound-Absorbing Wall Units

Bid Category No. 6 Clarifications:

1. Regarding any references to “Drywall Contractor”, “EIFS Contractor”, or “Ceiling Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Unless noted otherwise, all wood blocking and plywood, exterior or interior, shall be provided by this bid category.
3. Section 07 21 00 Thermal Insulation that is below grade shall be provided by the General Contractor. Section 07 21 00 Thermal Insulation cavity wall insulation behind the masonry veneer shall be provided by the Masonry Contractor. All other Section 07 21 00 Thermal Insulation including, but not limited to, the Smart CI System shall be provided by Drywall Contractor.
4. Provide clips, anchors, supports and other accessories that interface between steel framing and steel studding.
5. The Drywall Contractor shall provide blocking, additional bracing and/or backing required to adequately support all wall hung fixtures and equipment (cabinets, furniture, toilet accessories, tack boards, handrails, fire extinguisher cabinets, wall paneling, etc.).
6. The Drywall Contractor is to include a 100-man-hour allowance for replacement of stained or damaged ceiling tile or other work to be performed by a skilled carpenter at the direction of the Construction Manager throughout the duration of the project. At the end of the project, unused hours will be

converted into a dollar amount and returned to the Owner as a deduct Change Order.

G. BID CATEGORY NO. 7 – Window Systems, Glass & Glazing

General Requirements in Paragraph 3.02.B above.

Section	08 13 16.13	Aluminum Doors
Section	08 43 13	Aluminum-Framed Storefronts
Section	08 80 00	Glazing

Bid Category No. 7 Clarifications:

1. Regarding any references to “Glazing Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. The term “Window Systems” includes, but is not limited to, storefront, window wall, and curtain wall systems. These are responsibility of the Glazing Contractor.
3. All fiberglass reinforced plastic (“FRP”) windows, doors, and frames are responsibility of the Glazing Contractor.
4. Door hardware for all window systems, and FRP doors and frames will be furnished by the General Contractor and installed by the Glazing Contractor. Electrical Contractor shall provide final electrical connections, including but not limited to low voltage and power wiring, commissioning, or controls not integral to the hardware. All wiring within window systems including but not limited to aluminum storefronts, curtainwalls, and frames, and FRP doors and frames shall be installed by the Glazing Contractor. Final connection and power supply to be provided by Electrical Contractor.

H. BID CATEGORY NO. 8 – Tiling, Resilient Flooring & Carpeting

General Requirements in Paragraph 3.02.B above.

Section	01 45 23.13	Concrete Floor Moisture Content and pH Testing
Section	09 05 61.13	Moisture Vapor Emission Control
Section	09 30 00	Tiling
Section	09 65 13	Resilient Base and Accessories
Section	09 65 16	Resilient Sheet Flooring
Section	09 65 19	Resilient Tile Flooring
Section	09 68 13	Tile Carpeting
Section	12 48 13	Entrance Floor Mats and Frames

Bid Category No. 8 Clarifications:

1. Regarding any references to “Flooring Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Contractor shall include all costs to prepare sub-floor and underlayment as required to perform his work, including, but not limited to, thresholds, patching, adhesives, edge strips, reducer strips, sleepers, vapor barriers, fasteners, leveling compounds, and other, per manufacturer recommendations.
3. Contractor shall include all costs to provide finished floors, including, but not limited to, sealers, polishes and others per manufacturer recommendations.

I. BID CATEGORY NO. 9 – Wood Flooring

General Requirements in Paragraph 3.02.B above.

Section	01 45 23.13	Concrete Floor Moisture Content and pH Testing
Section	09 05 61.13	Moisture Vapor Emission Control
Section	09 64 66	Wood Athletic Flooring

Bid Category No. 9 Clarifications:

1. Regarding any references to “Wood-Flooring Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Contractor shall include all costs to prepare sub-floor and underlayment as required to perform his work, including, but not limited to, thresholds, patching, adhesives, edge strips, reducer strips, sleepers, vapor barriers, fasteners, leveling compounds and other, per manufacturer recommendations.
3. Contractor shall include all costs to provide finished floors, including, but not limited to, sealers, polishes and others per manufacturer recommendations.

J. BID CATEGORY NO. 10 – Painting & Wallcovering

General Requirements in Paragraph 3.02.B above.

Section	09 72 16	Vinyl-Coated Fabric Wall Coverings
Section	09 91 23	Interior Painting
Section	09 96 00	High-Performance Coatings
Section	10 11 00	Visual Display Units

Bid Category No. 10 Clarifications:

1. Regarding any references to “Painting Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Section 10 11 00 - Factory framed visual display units shall be provided by the General Trades Contractor. Section 10 11 00 - wall surface coverings shall be provided by the Painting Contractor.
3. The Painting Contractor shall be responsible for painting mechanical, electrical plumbing, and fire suppression work in MEPF rooms, and MEPF work exposed to view in interior occupied spaces, exterior walls and roof.
4. The Painting Contractor is to include a 120-man-hour allowance for additional painting and wallcovering including touch-up to be performed by a skilled painter at the direction of the Construction Manager throughout the duration of the project. At the end of the project, unused hours will be converted into a dollar amount and returned to the Owner as a deduct Change Order.

K. BID CATEGORY NO. 11 - Casework

General Requirements in Paragraph 3.02.B above.

Section	06 41 16	Plastic-Laminate-Faced Architectural Cabinets
Section	06 61 16	Solid Surface Fabrications
Section	12 32 16	Manufactured Plastic Laminate-Faced (Educational) Casework

Bid Category No. 11 Clarifications:

1. Regarding any references to “Casework Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. The Casework Contractor is responsible to provide all penetrations to casework (from factory or field modified and finished) as required by the plans and details or as required to coordinate associated electrical, mechanical or plumbing.

Coordinate power and data requirements and locations with the Electrical Contractor for locations and sizes of holes needed. Coordinate mechanical and plumbing requirements and locations with the Mechanical Contractor for locations and sizes of holes needed.

3. Coordinate blocking requirements with Drywall Contractor.

L. BID CATEGORY NO. 12 – Food Service Equipment

General Requirements in Paragraph 3.02.B above.

Section 11 31 00 Residential Appliances

Section 11 40 00 Food Service Equipment

Bid Category No. 12 Clarifications:

1. Regarding any references to “Food Service Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. All final connections (not integral to food service equipment) shall be made by the Electrical, Mechanical, Plumbing, or Fire Suppression Contractors, as applicable. Coordinate with other trades as necessary.
3. Provide coordinated shop drawings that indicate all MEPF requirements and accurately reflect the actual conditions and spacing of the area.
4. Obtain approvals and permits and coordinate inspections and testing with governing local and state agencies in relation to this scope of work.
5. Equipment bases and pads shall be provided by the Contractor installing the equipment.

M. BID CATEGORY NO. 13 – Fire Suppression

General Requirements in Paragraph 3.02.B above.

Section 21 05 00 Common Work Results for Fire Suppression

Section 21 10 00 Water-Based Fire Suppression Systems

Bid Category No. 13 Clarifications:

1. Regarding any references to “Fire Suppression Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Regarding any references to fire suppression systems indicated on the Contract Documents, this work is the responsibility of the Fire Suppression Contractor.
3. All final connections to food service equipment (not integral to food service equipment) shall be made by the Electrical, Mechanical, Plumbing, or Fire Suppression Contractors, as applicable. Coordinate with other trades as necessary.
4. Obtain approvals and permits and coordinate inspections and testing with governing local and state agencies in relation to this scope of work.
5. Equipment bases and pads shall be provided by the Contractor installing the equipment.
6. Painting of Fire Suppression Work is by the Painting Contractor. The Fire Suppression Contractor is responsible for labeling and coordinating work with the Painting contractor.
7. Provide controller, jockey pumps, flow meter, flow devices for fire alarm, or the like, as related to fire suppression work for a full operable system. All electrical final connections including, but not limited to, wiring of pump, controller, or devices to be by the Electrical Contractor.

N. BID CATEGORY NO. 14 – Mechanical: Plumbing & HVAC

General Requirements in Paragraph 3.02.B above.

Section	01 51 30	Temporary Heating, Ventilation and Cooling
Section	22 05 00	Common Work Results for Plumbing
Section	22 05 01	Basic Plumbing Materials and Methods
Section	22 05 13	Common Motor Requirements for Plumbing Equipment
Section	22 05 19	Meters and Gages for Plumbing Piping
Section	22 05 23	General-Duty Valves for Plumbing Piping
Section	22 05 29	Hangers and Supports for Plumbing Piping and Equipment
Section	22 05 53	Identification for Plumbing Piping and Equipment
Section	22 07 00	Plumbing Insulation
Section	22 11 13	Facility Water Distribution Piping
Section	22 11 16	Domestic Water Piping
Section	22 11 19	Domestic Water Piping Specialties
Section	22 11 22	Facility Natural Gas Piping
Section	22 11 23	Domestic Water Pumps
Section	22 13 16	Sanitary, Waste, and Vent Piping System
Section	22 13 23	Sanitary Waste Interceptors
Section	22 14 13	Facility Storm Drainage Piping
Section	22 31 00	Domestic Water Softeners
Section	22 34 00	Fuel-Fired Domestic Water Heaters
Section	22 40 00	Plumbing Fixtures
Section	22 47 00	Drinking Fountains and Water Coolers
Section	23 05 00	Common Work Results for HVAC
Section	23 05 13	Common Motor Requirements for HVAC Equipment
Section	23 05 16	Expansion Fittings and Loops for HVAC Piping
Section	23 05 19	Meters and Gages for HVAC Piping
Section	23 05 23	General-Duty Valves for HVAC Piping
Section	23 05 29	Hangers and Supports for HVAC Piping and Equipment
Section	23 05 48	Vibration and Seismic Controls for HVAC Piping and Equipment
Section	23 05 53	Identification for HVAC Piping and Equipment
Section	23 05 93	Testing, Adjusting, and Balancing for HVAC
Section	23 07 00	HVAC Insulation
Section	23 09 00	HVAC Direct Digital Controls
Section	23 09 93	HVAC Sequence of Operation
Section	23 21 13	Hydronic Piping
Section	23 21 23	Hydronic Pumps
Section	23 23 00	Refrigerant Piping
Section	23 25 00	HVAC Water Treatment
Section	23 29 23	Variable-Frequency Motor Controllers
Section	23 31 13	Metal Ducts
Section	23 33 00	Air Duct Accessories
Section	23 34 23	HVAC Power Ventilators
Section	23 36 00	Air Terminal Units
Section	23 37 13	Diffusers, Registers, and Grilles
Section	23 37 23	HVAC Gravity Ventilators
Section	23 51 00	Breechings, Chimneys, and Stacks
Section	23 52 16	Condensing Boilers
Section	23 64 23	Air Cooled Rotary Screw Chiller with Remote Evaporator

Section	23 72 00	Air-to-Air Energy Recovery Equipment
Section	23 73 13	Modular Indoor Central-Station Air-Handling Units
Section	23 81 23	Computer-Room Air-Conditioners
Section	23 82 19	Fan Coil Units
Section	23 82 39	Unit Heaters

Bid Category No. 14 Clarifications:

1. Regarding any references to “MC” – “Mechanical Contractor”, “PC” – “Plumbing Contractor”, or “TC” – “Temperature Controls Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Equipment bases and pads shall be provided by the Contractor installing the equipment.
3. All final connections to equipment and furnishings (not integral to equipment), interior and exterior, shall be made by the Electrical, Mechanical, or Plumbing Contractors, as applicable. Coordinate with other trades as necessary.
4. All final connections to food service equipment (not integral to food service equipment) shall be made by the Electrical, Mechanical, Plumbing, or Fire Suppression Contractors, as applicable. Coordinate with other trades as necessary.
5. The gas service is going to be installed by the utility company, and coordinated by the General Contractor, up to the meter on the building. The Mechanical Contractor shall connect to the service provided by the gas utility.
6. The Mechanical Contractor shall coordinate with Utility Companies for services as it pertains to this contractor’s scope of work, as necessary.
7. Temperature Controls low voltage wiring is the responsibility of the Mechanical Contractor and power wiring is the responsibility of the Electrical Contractor.
8. Painting of Mechanical Work is by the Painting Contractor. The Mechanical Contractor is responsible for labeling and coordinating work with the Painting contractor.
9. Any necessary filter replacements required during construction will be the responsibility of the Mechanical Contractor. New filters shall be installed when the system is turned over to the owner.

O. BID CATEGORY NO. 15 – Electrical, Communications, Safety & Security

Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	26 00 50	General Electrical Requirements
Section	26 05 05	Electrical Testing
Section	26 05 19	Low-Voltage Electrical Power Conductors and Cables
Section	26 05 26	Grounding and Bonding for Electrical Systems
Section	26 05 29	Hangers and Supports for Electrical Systems
Section	26 05 33	Conduit and Boxes for Electrical Systems
Section	26 05 35	Surface Raceways for Electrical Systems
Section	26 05 37	Wire Mesh Type Cable Trays
Section	26 05 43	Underground Ducts and Raceways for Electrical Systems
Section	26 05 53	Identification for Electrical Systems
Section	26 05 73	Power System Studies
Section	26 09 23	Lighting Control Devices
Section	26 22 00	Low-Voltage Transformers

Section	26 24 13	Switchboards
Section	26 24 16	Panelboards
Section	26 27 13	Utility Electric Metering
Section	26 27 26	Wiring Devices
Section	26 28 13	Fuses
Section	26 28 16	Enclosed Switches and Circuit Breakers
Section	26 29 13	Enclosed Controllers
Section	26 32 13	Engine Generators
Section	26 35 33	Power Factor Correction Equipment
Section	26 36 00	Transfer Switches
Section	26 40 02	Underground Electrical Service
Section	26 51 00	Interior Lighting
Section	26 55 61	Stage Dimming System
Section	26 56 00	Exterior Lighting
Section	27 01 00	Operation and Maintenance of Communications Systems
Section	27 01 11	Demonstration, Training and Warranty of Communications Systems
Section	27 05 00	Common Work Results for Communications
Section	27 05 26	Grounding and Bonding for Communications Systems
Section	27 05 28	Pathways for Communications Systems
Section	27 05 53	Identification for Communications Systems
Section	27 11 00	Communications Equipment Room Fittings
Section	27 11 00TM	Manufacturers Material List
Section	27 13 23	Communications Fiber Optical Backbone Cabling
Section	27 13 23TM	Manufacturers Material List
Section	27 15 11	Conductors and Cables for Intercom, Public Address and Mass Notification Systems
Section	27 15 15	Communications Copper Horizontal Cabling (Category 6)
Section	27 15 15TM	Manufacturers Material List
Section	27 15 17	Communications Copper Horizontal Cabling (Augmented Cat 6A)
Section	27 15 17TM	Manufacturers Material List
Section	27 15 53	Misc. Communications Audio/Video Cabling
Section	27 15 53TM	Manufacturers Material List
Section	27 51 16	Public Address and Mass Notification Systems
Section	27 51 17	Sound Reinforcement System
Section	27 51 25	IP Based Intercommunications and Program Systems
Section	27 53 15	Synchronous Wireless Clock Systems
Section	27 53 19	Distributed Antenna Systems (First Responder)
Section	28 05 10	Common Work Results for Electronic Safety and Security
Section	28 05 23	Conductors and Cables for Electronic Safety and Security
Section	28 31 11	Digital, Addressable Fire-Alarm System

Bid Category No. 15 Clarifications:

1. Regarding any references to “EC” or “Electrical Contractor” indicated on the Contract Documents, this work is the responsibility of this bid category.
2. Door hardware for all window systems, and FRP doors and frames will be furnished by the General Contractor and installed by the Glazing Contractor. Electrical Contractor shall provide final electrical connections, including but not limited to low voltage and power wiring, commissioning, or controls not

integral to the hardware. All wiring within window systems including but not limited to aluminum storefronts, curtainwalls, and frames, and FRP doors and frames shall be installed by the Glazing Contractor. Final connection and power supply to be provided by Electrical Contractor.

3. Equipment bases and pads shall be provided by the Contractor installing the equipment.
4. Painting of Electrical Work is by the Painting Contractor. The Electrical Contractor is responsible for labeling and coordinating work with the Painting contractor.
5. All final connections to equipment and furnishings (not integral to equipment), interior and exterior, shall be made by the Electrical, Mechanical, or Plumbing Contractors, as applicable. Coordinate with other trades as necessary.
6. All final connections to food service equipment (not integral to food service equipment) shall be made by the Electrical, Mechanical, Plumbing, or Fire Suppression Contractors, as applicable. Coordinate with other trades as necessary.
7. All final electrical connections to fire suppression, including, but not limited to, wiring of pump, controller, or devices, shall be by the Electrical Contractor.
8. The electric service and telecommunication service shall be provided by the Electrical Contractor. The Electrical Contractor is to provide all trenching, duct bank, conduit, cable, equipment pads, utility fees, and the like, as required to install fully operable services.
9. The Electrical Contractor shall coordinate with Utility Companies for services as it pertains to this contractor's scope of work, as necessary.
10. Temperature Controls low voltage wiring is the responsibility of the Mechanical Contractor and power wiring is the responsibility of the Electrical Contractor.

END OF SECTION 01 12 00